

CLAIMS

1) Coating composition comprising:

- a. one or more thiol compounds;
- 5 b. one or more oxidatively drying polyunsaturated condensation products of one or more fatty acids and/or esters, one or more polyols and optionally one or more polycarboxylic acids and/or anhydrides of polycarboxylic acids and optionally other building blocks;
- 10 c. and one or more photo-initiators.

2) Coating composition according to claim 1 characterized in that in the ratio between the number of unsaturated groups and the number of SH-functional groups is at least 1,5:1, preferably between 2:1 and 20:1.

3) Coating composition according to one of the preceding claims characterized in that the coating composition comprises 1 - 30 wt.%, preferably 3 - 20 wt.%, of thiol compounds, related to the total weight of solid resin.

4) Coating composition according to one of the preceding claims characterized in that one or more isocyanates are used as building blocks for the oxidatively drying polyunsaturated condensation products.

25 5) Coating composition according to one of the preceding claims characterized in that the coating composition is a high solids coating composition, comprising 0 - 40 wt.%, preferably 0 - 30 wt.% solvents.

30 6) Coating composition according to one of claims 1 - 4 characterized in that the composition is an aqueous coating composition.

7) Coating composition according to one of the preceding claims characterized in that the photoinitiator is active by visible light.

8) Coating composition according to one of the preceding claims

5 characterized in that the photoinitiator is an acyl phosphine oxide compound, preferably mono-, bis- or trisacyl phosphine oxide or a mixture thereof.

9) Coating composition according to one of the preceding claims

10 characterized in that at least one of the oxidatively drying polyunsaturated condensation products is the thiol compound, or is one of the thiol compounds.

10) Use of a coating composition according to one of claims 1 – 9 as a one component coating system.

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